

HIGH EFFICIENCY LIVESTOCK WASTEWATER TREATMENT METHOD

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Abstract of KR20030033812

PURPOSE: A high efficiency livestock wastewater treatment method is provided, in which treatment efficiency enhanced by recycling without any sludge settlement and additional treatment, and recalcitrant nonbiodegradable organics are treated by ozone/catalytic oxidation phase.

CONSTITUTION: In the high efficiency livestock wastewater treatment system composed of a pretreatment tank, a chemical treatment tank, an anaerobic tank, a primary anoxic tank, a primary aerobic tank, a secondary anoxic tank, a secondary aerobic tank, an MBR (membrane bio-reactor), an ozone/catalytic oxidation tank and a zeolite tower, which are set serially, the treatment method is characterized in that a portion of the primary aerobic tank effluent is recycled to the primary anoxic tank, and the whole amount of the residual activated sludge of the MBR is recycled to the anaerobic tank.

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